INTEGRATED DEEPWATER SYSTEM (IDS)

Homeland Security

DEEPWATER

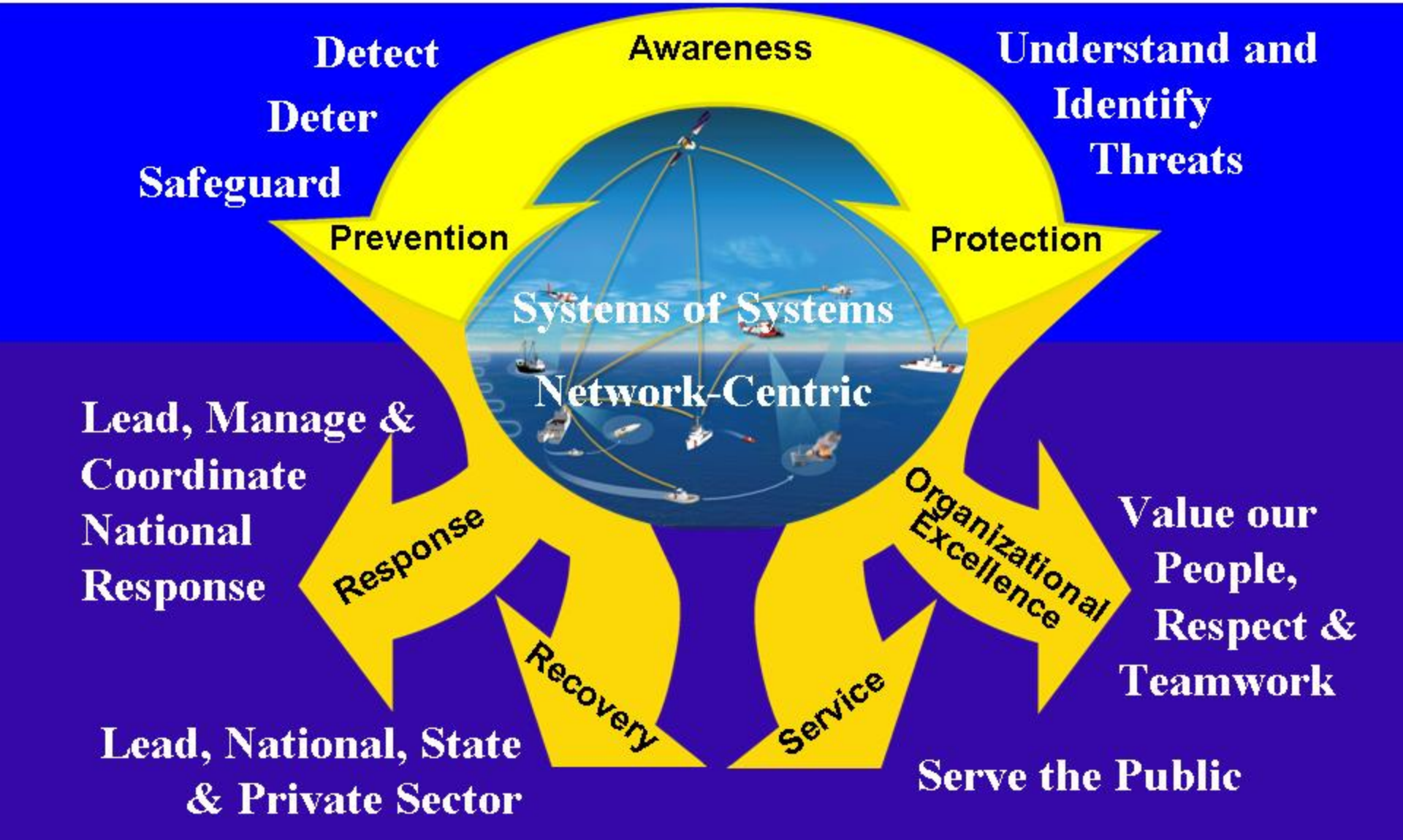
Deepwater Introduction

Maritime Challenges Have Changed

So Must The Federal Response…

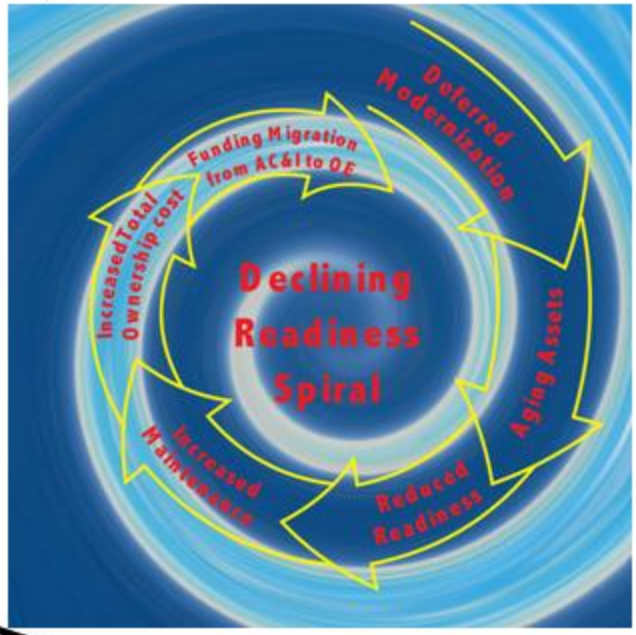
Asymmetric warfare waged by rogue states or international terrorists, drug trafficking and illegal migration, and degradation of the marine environment—will likely intensify in tomorrow's increasingly interconnected world.

DHS Strategic Plan



Current Coast Guard Capabilities

The average age of our Deepwater cutters is 30...The Coast Guard fleet of High and Medium Endurance Cutters is older than 37 of the 39 (naval) fleets worldwide...



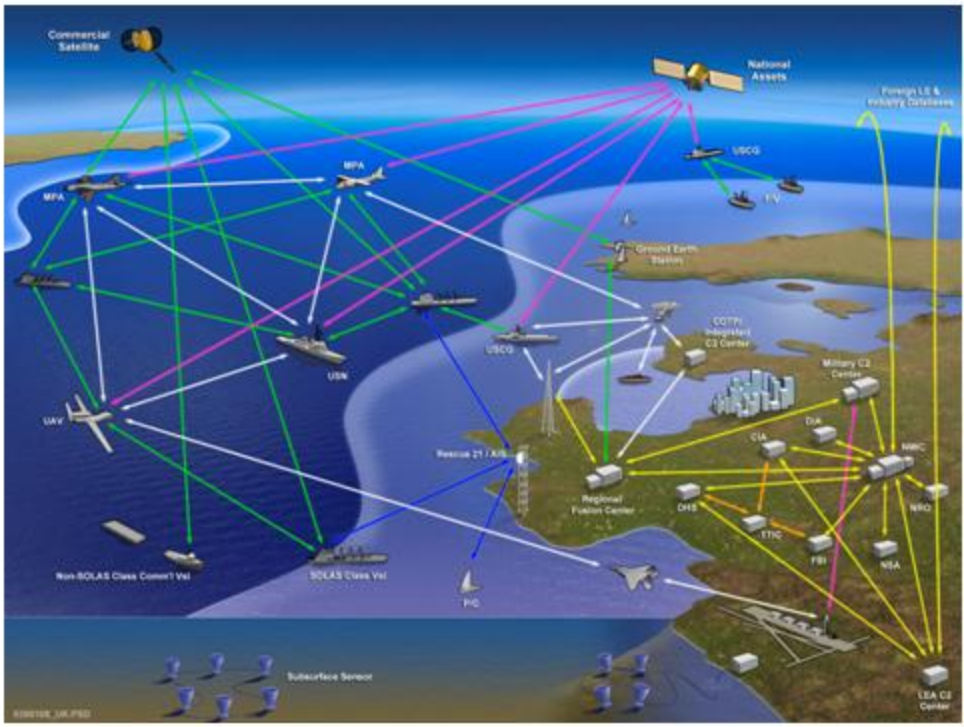
Year First Commissioned

Expiration of Planned Service Life

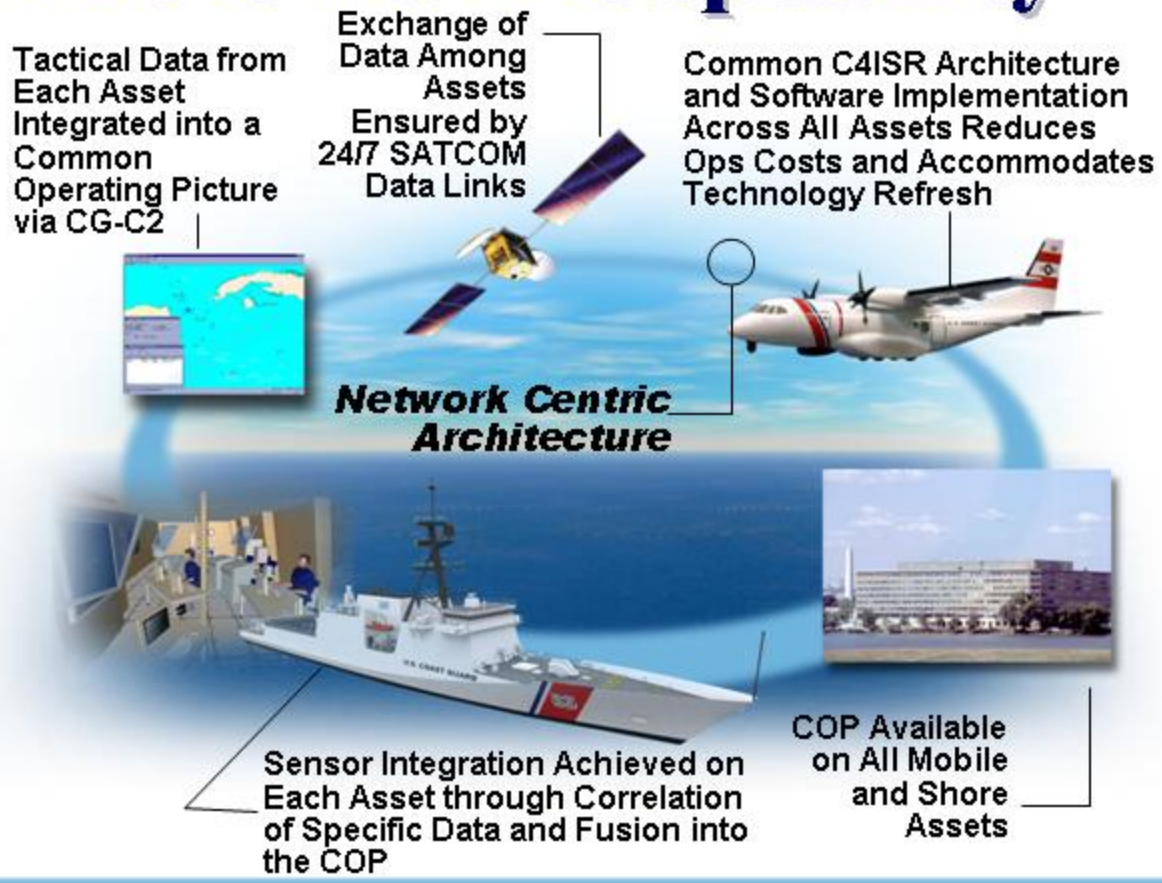
System of Systems Solution

Maritime Domain Awareness

- Expanding awareness of activities occurring in the maritime domain is critical to enhancing our performance across all mission areas.
- Identify and understand threats, and disseminate timely information to our operational commanders and our homeland security partners
- Respond to terrorist attacks, drug smuggling, illegal migration, distressed boaters, or illegal fishing



The C4ISR Capability

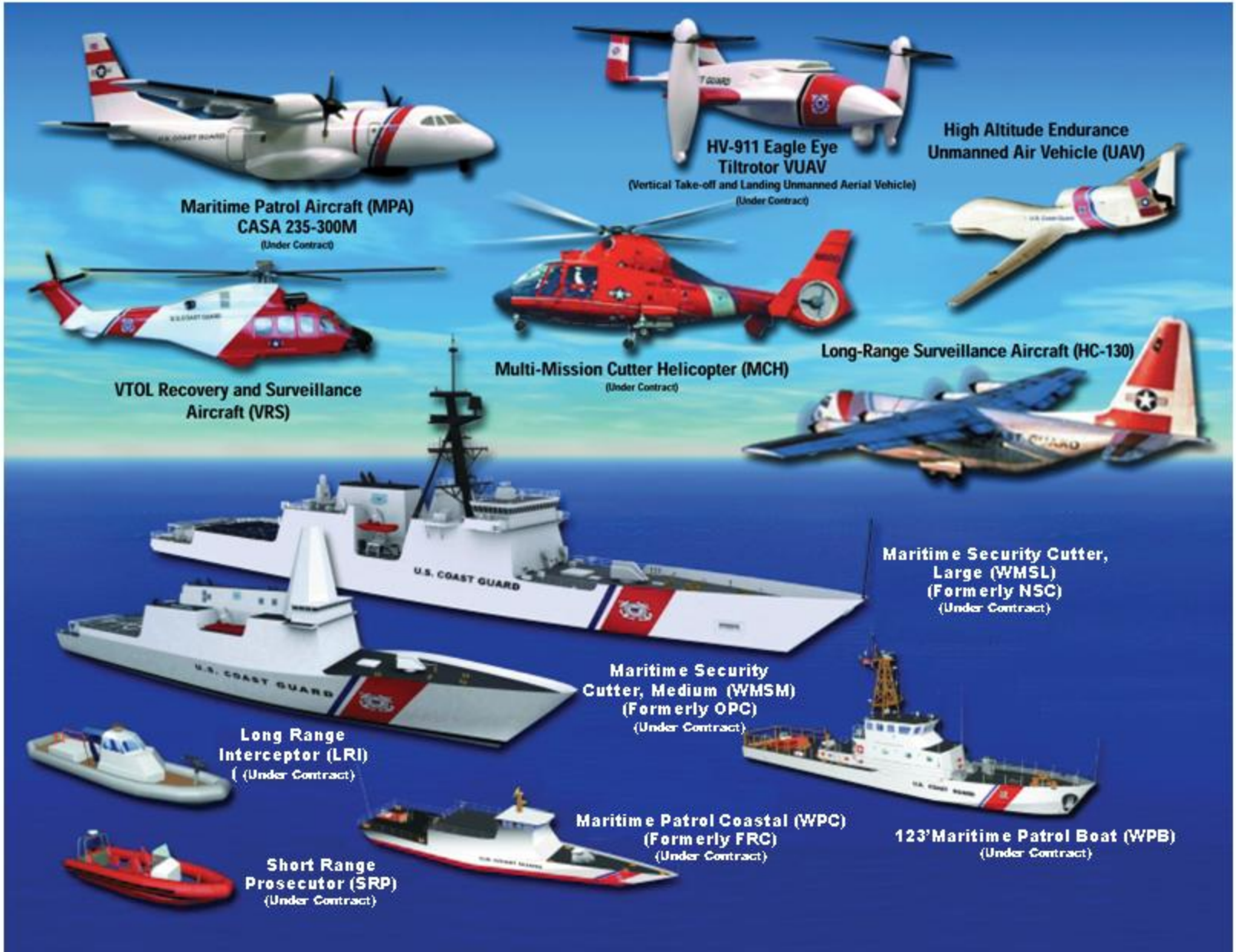


Capability Improvements

- Common Command and Control Systems is Fully Integrated With All Sensors, Communications, and Legacy Interfaces
- Interoperability and Maritime Domain Awareness Established by IDS Assets and National Sources
- Imbedded Technical Refresh to Prevent Future Obsolescence

Early Increased Situational Awareness, Surveillance, and Command is Provided through a Common Operating Picture to Answer Homeland Security Requirements

System Solution – Assets



Surface Implementation: Summary

Maritime Security Cutter, Large (WMSL)

- Funding in FY04 and FY05 request provide design and development of WMSL lead ship and building second WMSL.
- Startfab for this first-in-class occurred on 9 September 2004, with the keel laying to follow, in April 2005. The anticipated date of delivery for the lead ship will be the second quarter of 2007.
- Naval Operational Capacity (NOC) and DHS capability incorporated into design.

Maritime Security Cutter, Medium (WMSM)

- Congress funded in FY04 appropriations due to heightened operational tempo of the Coast Guard and the need to meet an expanding mission portfolio with increasingly deteriorating fleet assets.
- The start of the design and final requirements work for the 341-foot medium endurance cutter contract signed June 2004
- Accelerated the launch by approximately three years.
- Potential for synergy with LCS (Littoral Combat Ship).

Surface Implementation: Summary

Maritime Patrol Coastal (WPC)

- Initiated Concept and Preliminary design to assess composite hull; expectation of reasonable period of time to demonstrate the suitability and performance of the material in a marine environment before the entire class is built of same material.
- As a result of continued deterioration of the material condition of the Island Class 110-foot patrol boats, the decision was made to advance capabilities for the design and development of the WPC to replace existing 110-foot patrol boats.
- Goal is to accelerate WPC delivery in late 2006/early 2007

Maritime Patrol Boat (WPB)

- Currently eight cutters under contract; hulls 9-12 are under active discussion.
- MATAGORDA, METOMPKIN, PADRE & ATTU delivered; 4 hulls at Bollinger (VASHON, NUNIVAK, MONHEGAN & MANITOU).
- Challenges faced include the quality of the product, the Short Range Prosecutor, TEMPEST equipment, the hull paint, and the post delivery maintenance availability (PDMA).

Air Implementation: Summary

HH-65

- Re-engining to restore safe & reliable operations
- ICGS selected Turbomeca as the supplier
- 1st re-engine helo delivered Oct 06
- Commandants goal re-engine all helo's in 2 years
- Long-term plan is to convert HH-65 to MCH

HH-60J

- HH-60 Legacy upgrades include new avionics, radio, navigation, and sensor packages.
- 8 MH-68 Stingray leased for assignment to Helicopter Interdiction Tactical Squadron Ten (HITRON)

Air Implementation: Summary

Maritime Patrol Aircraft (MPA)

- Delivery of 2 CASA in early 2007, (mission mods late 2006)
- Ongoing effort to determine optimal mix of HC-130 and the CASA to meet the overall system requirements

HC-130J

- 6 C-130Js at APO Elizabeth City
- Missionization of C-130J moving to Deepwater
- Fully missionized by 2007
- 2 interim missionized in 2004

Eagle Eye (VUAV)

- Completed successful PDR
- VUAV Design and development costs funded in FY04; FY05 request includes purchase of two VUAVs
- Current schedule project testing through mid-2007, Initial Operational Capability (IOC) Spring 2008

C4ISR Summary

Legacy Cutter Upgrades

- SIPRNET & Classified LAN:
  - WMEC 270 – 12 complete, 13 in all
  - WMEC 378 – 6 complete, 2 more scheduled complete Sept 04, 9th to be complete Oct 04, 3 added to Deepwater contract
  - WMEC 210 – Plan to start Sept 04

C4ISR System Developments

- On Schedule, per Plan
- Successful Increment 1 initial Critical Design Review July 04
- WMSL C4ISR Production Readiness review conducted Sept. 04

Legacy Shore Upgrades

- SIPRNET & Classified LAN
  - *CAMSLANT, Complete*
  - *CAMSPAC, Complete*

Maritime Domain Awareness Center ribbon cutting April 2004

Integrated Logistics Milestones

Capability Improvements

- First generation of Logistics Information Management Software is complete.
- Integrated Product Data Environment (IPDE) has been established program-wide for Program performance and metrics
- ICGS logistics site reps have been named and assigned to ELC (Maryland), MLCA (Virginia), Group Miami (Florida) Group Key West (Florida) and OSC (West Virginia)

Homeland Security

ELC Engineering Logistic Center
MLCA Maintenance & Logistic Command Atlantic
OSC Operations Support Center

DEEPWATER

Human Capital Plan

- The Deepwater HCP discusses the following key elements as they apply to the program

  - ✓ Recruit and Retain Employees on the Basis of Current and Projected Needs
  - ✓ Hire a Diverse Workforce
  - ✓ Link Executive Performance to Organizational Goals
  - ✓ Learning Organization
  - ✓ Streamline, Simplify, and Expedite Personnel Operations
  - ✓ Identify Skills and Training Needs: Linkage to DAU/DSMC

Visit the IDS Web Page for latest Developments

Address http://www.uscg.mil/hq/g-a/deepwater/

TRANSFORMING AMERICA'S SHIELD OF FREEDOM

Integrated Deepwater System

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Homeland Security

United States Coast Guard

SHOWCASING THE NEW MARITIME DOMAIN AWARENESS CENTER (MDAC)

Admiral Thomas H. Collins, Commandant of the U.S. Coast Guard, joined New Jersey Congressmen Jim Saxton and Frank LoBiondo to assist representatives from Lockheed Martin and Northrop Grumman during the ribbon-cutting ceremony opening the Maritime Domain Awareness Center (MDAC) at the Lockheed Martin facilities in Moorestown, New Jersey on Friday, April 23, 2004.

The new $9.4 million MDAC is a 46,000-square foot state-of-the-art facility designed to develop, test, and integrate assets and systems being produced to support the Coast Guard's Integrated Deepwater System (IDS) and other Homeland Security programs. One of nine labs in the Maritime Systems Engineering Center (MSEC), the MDAC facility can perform development, integration, installation, checkout, and acceptance testing of C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance, and

NEW TO THE PROGRAM?

The Integrated Deepwater System is critical to the Coast Guard's future and to America's ability to safeguard our homeland and maritime security for generations to come. Learn more about the IDS Program.

INTERESTED IN THE STATUS OF THE IDS PROGRAM?

Keep up-to-date on the IDS Program by checking out our Recent Milestones and the planned phases for Deepwater assets.

IN THE NEWS...

RAND Study: The U.S. Coast Guard's Deepwater Force Modernization Plan: Can It Be Accelerated? Will It Meet Changing Security Needs?

Check us out: www.uscg.mil/deepwater